



SEQUENCE LISTING

<110> BELFORT, MARLENE
BELFORT, GEORGES
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WU, WEI

<120> GENETIC SYSTEM AND SELF-CLEAVING INTEINS DERIVED
THEREFROM, BIOSEPARATIONS AND PROTEIN PURIFICATION
EMPLOYING SAME, AND METHODS FOR DETERMINING CRITICAL,
GENERALIZABLE AMINO ACID RESIDUES FOR VARYING

<130> 454311-2201.1

<140> 09/641,808

<141> 2000-08-17

<150> 60/149,257

<151> 1999-08-17

<160> 26

<170> PatentIn Ver. 3.3

<210> 1

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative
peptide

<400> 1

Cys Gly Glu Gln Pro Thr Gly
1 5

<210> 2

<211> 5

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<223> Description of Artificial Sequence: Illustrative
peptide

<400> 2

Ser Ile Glu Gln Asp
1 5

<210> 3

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<223> Description of Artificial Sequence: Illustrative peptide

<400> 3

Cys Arg Ala Met Gly
1 5

<210> 4

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Met Ile Glu Gln Asp
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<210> 5

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<212> PRT

<213> Foot-and-mouth disease virus

<400> 5

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
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Pro Gly Pro

<210> 6

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<212> DNA

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polynucleotide sequence

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<213> Foot-and-mouth disease virus

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Pro Gly Pro

<210> 9
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<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 9
Phe Thr Cys Asn Ala Thr His Glu Leu
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<210> 10
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<213> *Mycobacterium leprae*

<400> 10
Phe Ala Ala Thr Pro Asn His Leu Ile
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<210> 11
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<213> *Mycobacterium xenopi*

<400> 11
Val Thr Gly Thr Ala Asn His Pro Leu
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<210> 12
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<213> *Pyrococcus* sp.

<400> 12
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 <213> *Porphyra purpurea*

<400> 13
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<210> 14
 <211> 9
 <212> PRT
 <213> *Mycobacterium tuberculosis*

<400> 14
 Val Trp Ala Thr Pro Asp His Lys Val
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<210> 15
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 <213> *Caenorhabditis elegans*

<400> 15
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<210> 16
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 <213> *Drosophila melanogaster*

<400> 16
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<210> 17
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 <213> *Xenopus laevis*

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<210> 18
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 <213> *Saccharomyces cerevisiae*

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Asp Tyr Tyr Gly Ile Thr Leu Ser Asp Asp Ser Asp His Gln Phe Leu
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Leu Ala Asn

<210> 19

<211> 18

<212> PRT

<213> Mycobacterium leprae

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Ser Met Asn Arg Phe Asp Ile Glu Val Glu Gly Asn His Asn Tyr Phe
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Val Asp

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<211> 19

<212> PRT

<213> Mycobacterium xenopi

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Ile Thr Asn

<210> 21

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<213> Pyrococcus sp.

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Ala Gly

<210> 22

<211> 18

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<213> Porphyra purpurea

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Phe Gln Asn Val Phe Asp Phe Ala Ala Asn Pro Ile Pro Asn Phe Ile
1 5 10 15

Ala Asn

<210> 23
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 <213> Mycobacterium tuberculosis

<400> 23
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 1 5 10 15
 Ala Glu

<210> 24
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 <213> Caenorhabditis elegans

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<210> 25
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 1 5 10 15

<210> 26
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 <212> PRT
 <213> Xenopus laevis

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 Thr Gly Ala Tyr Ala Pro Leu Thr Ala His Gly Thr Val Val Ile Asp
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